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### 1 [XML stream processing using tree-edit distance embeddings](#)

 Minos Garofalakis, Amit Kumar  
March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

**Publisher:** ACM

Full text available: [pdf\(726.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 209, Citation Count: 3

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

**Keywords:** XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

## 2 Data Sonification for Users with Visual Impairment: A Case Study with



### Georeferenced Data

Haixia Zhao, Catherine Plaisant, Ben Shneiderman, Jonathan Lazar

May 2008 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 15 Issue 1

**Publisher:** ACM

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 100, Downloads (12 Months): 100, Citation Count: 0

We describe the development and evaluation of a tool, iSonic, to assist users with visual impairment in exploring georeferenced data using coordinated maps and tables, augmented with nontextual sounds and speech output. Our in-depth case studies with ...

**Keywords:** Interactive sonification, auditory user interfaces, information seeking, universal usability, users with visual impairment

## 3 Theory of keyblock-based image retrieval



Lei Zhu, Al Bing Rao, Aldong Zhang

April 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2

**Publisher:** ACM

Full text available: [pdf\(2.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 163, Citation Count: 5

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing ...

**Keywords:** clustering, codebook, content-based image retrieval, keyblock

## 4 Hash-based IP traceback



Alex C. Snoeren

August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications

**Publisher:** ACM

Full text available: [pdf\(179.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 163, Citation Count: 69

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

## 5 [Hash-based IP traceback](#)



Alex C. Snoeren

October ACM SIGCOMM Computer Communication Review, Volume 31 Issue 4  
2001

**Publisher:** ACM

Full text available: [pdf\(179.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 163, Citation Count: 69

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

## 6 [Cache-oblivious string B-trees](#)



Michael A. Bender, Martin Farach-Colton, Bradley C. Kuszmaul

June PODS '06: Proceedings of the twenty-fifth ACM SIGMOD-SIGACT-SIGART  
2006 symposium on Principles of database systems

**Publisher:** ACM

Full text available: [pdf\(154.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 172, Citation Count: 4

B-trees are the data structure of choice for maintaining searchable data on disk. However, B-trees perform suboptimally

- when keys are long or of variable length,
- when keys are compressed, even when using *front compression*, the ...

**Keywords:** cache oblivious string B-tree, locality preserving front compression, packed-memory array, range query, rebalance

## 7 [Shape intrinsic fingerprints for free-form object matching](#)



K. H. Ko, T. Maekawa, N. M. Patrikalakis, H. Masuda, F.-E. Wolter

June SM '03: Proceedings of the eighth ACM symposium on Solid modeling and applications

**Publisher:** ACM

Full text available: [pdf\(687.06 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 56, Citation Count: 1

This paper presents matching and similarity evaluation methods between two NURBS surfaces, and their application to copyright protection of digital data representing solids or NURBS surfaces. Two methods are employed to match objects: the moment and ...

**Key words:** NURBS, fingerprints, localization, matching, partial matching, registration, similarity, umbilics

## 8 [Communications of the ACM: Volume 51 Issue 6](#)



June issue Volume 51 Issue 6  
2008

**Publisher:** ACM

Full text available: [pdf\(8.89 MB\)](#) [digital edition](#)

**Additional Information:** [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 284, Downloads (12 Months): 284, Citation Count: 0

## 9 [Communications of the ACM: Volume 51 Issue 2](#)



February issue Volume 51 Issue 2  
2008

**Publisher:** ACM

Full text available: [pdf\(3.89 MB\)](#) [digital edition](#)

**Additional Information:** [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 549, Downloads (12 Months): 1641, Citation Count: 0

10 [Communications of the ACM: Volume 51 Issue 3](#)



March issue Volume 51 Issue 3  
2008

**Publisher:** ACM

Full text available: [pdf\(7.56 MB\)](#) [digital edition](#)

**Additional Information:** [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

11 [Communications of the ACM: Volume 51 Issue 5](#)



May issue Volume 51 Issue 5  
2008

**Publisher:** ACM

Full text available: [pdf\(7.28 MB\)](#) [digital edition](#)

**Additional Information:** [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 355, Downloads (12 Months): 355, Citation Count: 0

12 [Seeing, hearing, and touching: putting it all together](#)



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink  
August SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: [pdf\(20.64 MB\)](#)

**Additional Information:** [full citation](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 274, Downloads (12 Months): 1618, Citation Count: 2

13 [An open-source CVE for programming education: a case study](#)



Andrew M. Phelps, Christopher A. Egert, Kevin J. Pierre, David M. Parks  
July SI GGRAPH '05: ACM SIGGRAPH 2005 Courses  
2005

**Publisher:** ACM

Full text available: [pdf\(7.92 MB\)](#)

**Additional Information:** [full citation](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 460, Citation Count: 0

#### 14 [Communications of the ACM: Volume 51 Issue 4](#)



April issue Volume 51 Issue 4  
2008

**Publisher:** ACM

Full text available: [pdf\(4.24 MB\)](#) [digital edition](#)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 698, Downloads (12 Months): 1236, Citation Count: 0

#### 15 [Bioinformatics—an introduction for computer scientists](#)



Jacques Cohen  
June ACM Computing Surveys (CSUR), Volume 36 Issue 2  
2004

**Publisher:** ACM

Full text available: [pdf\(261.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 178, Downloads (12 Months): 1364, Citation Count: 6

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

#### 16 [Projectors: advanced graphics and vision techniques](#)



Ramesh Raskar  
August SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: [pdf\(6.53 MB\)](#) Additional Information: [full citation](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 121, Downloads (12 Months): 691, Citation Count: 1

17 [Extracting usability information from user interface events](#)



David M. Hilbert, David F. Redmiles

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

**Publisher:** ACM

Full text available: [pdf\(1.50 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 128, Downloads (12 Months): 858, Citation Count: 24

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, ...

**Keywords:** human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

18 [ACM SIGGRAPH Computer Graphics: Volume 37 Issue 2](#)



May 2003 issue Volume 37 Issue 2

2003

**Publisher:** ACM

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

19 [Unsupervised models for morpheme segmentation and morphology learning](#)



Mathias Creutz, Krista Lagus

January 2007 ACM Transactions on Speech and Language Processing (TSLP), Volume 4 Issue 1

**Publisher:** ACM

Full text available: [pdf\(441.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 63, Downloads (12 Months): 364, Citation Count: 0

We present a model family called Morfessor for the unsupervised induction of a simple morphology from raw text data. The model is formulated in a probabilistic maximum a posteriori framework. Morfessor can handle highly inflecting and compounding languages ...

**Keywords:** Efficient storage, highly inflecting and compounding languages, language independent methods, maximum a posteriori (MAP) estimation, morpheme lexicon and segmentation, unsupervised learning

## 20 [Abstracting dependencies between software configuration items](#)



Carl A. Gunter

January 2000 ACM Transactions on Software Engineering and Methodology  
(TOSEM), Volume 9 Issue 1

**Publisher:** ACM

Full text available: [pdf\(271.64 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 81, Citation Count: 2

This article studies an abstract model of dependencies between software configuration items based on a theory of concurrent computation over a class of Petri nets called production nets. A general theory of build optimizations and their ...

**Keyw ords:** Petri nets, abstract interpretation, mathematical models of build dependencies, software configuration management

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